## **AMENDMENTS TO THE CLAIMS**

- 1. (Original) A method of fixing a low-molecular compound on a solid-phase support, comprising the steps of:
- (1) bringing a solution containing a low-molecular compound into contact with a solidphase support having a photoreactive compound bonded to the surface;
- (2) evaporating to dryness the solution containing the low-molecular compound in the state of being in contact with the solid-phase support; and
- (3) irradiating the solid-phase support with light to form a covalent bond between the photoreactive compound and the low-molecular compound.
- 2. (Original) The method of fixing a low-molecular compound on a solid-phase support according to Claim 1, wherein the photoreactive compound is a compound capable of generating a nitrene, a carbene, a radical or a carbon electrophilic agent.
- 3. (Original) The method of fixing a low-molecular compound on a solid-phase support according to Claim 1, wherein the photoreactive compound is a compound having a diazonium, azide, diazirine or diazo group as a part of the structure.
- 4. (Original) The method of fixing a low-molecular compound on a solid-phase support according to Claim 1, wherein the photoreactive compound is a compound represented by formula (I):

2 MAA/clb

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$$Y^5$$
 $Y^1$ 
 $Y^2$ 
 $Y^2$ 
 $Y^3$ 
 $Y^1$ 

wherein X denotes  $-N_3$ ,  $-C^*(R^1)N=N^*$  (both the "\*"s are linked together to form a three-membered ring),  $-N_2^+Z^-$ ,  $-C(R^2)=0$ ,  $-CH=CH_2$ ,  $-NO_2$ ,  $-NH_2$ ,  $-C(=0)N_3$ , -Cl or  $-NH-CH_2-CO-CH=N_2$ ;  $R^1$  denotes a hydrogen atom, an alkyl group which may have a substituent or an aryl group which may have a substituent;  $R^2$  denotes an aryl group which may have a substituent;  $Z^-$  denotes an anion; any one of  $Y^1$ ,  $Y^2$ ,  $Y^3$ ,  $Y^4$  and  $Y^5$  denotes a group which is capable of reacting with a functional group carried on the surface of the solid-phase support to form a covalent bond and the other four members independently to one another denote a hydrogen or halogen atom.

- 5. (Currently Amended) The method of fixing a low-molecular compound on a solid-phase support according to any one of claims 1 to 4 Claim 1, wherein the solid-phase support is a support for a microarray.
- 6. (Original) A low-molecular microarray produced by a method as recited in Claim 5.
- 7. (Original) A method of detecting a substance capable of interacting with a low-molecular compound, comprising the steps of:

3

MAA/clb

(1) bringing a low-molecular microarray as recited in Claim 6 into contact with a solution which contains a test substance to be detected having a label;

- (2) removing any substance which fails to bind to the low-molecular compound; and
- (3) detecting the label of the test substance.
- 8. (Previously Presented) A method of identifying an interaction site on a low-molecular compound, comprising the steps of:
- (1) mixing a photoreactive compound with a low-molecular compound capable of interacting with a given substance;
- (2) irradiating the mixture with light to form a covalent bond between the photoreactive compound and the low-molecular compound;
- (3) separating complexes of the photoreactive compound and the low-molecular compound into different groups in accordance with the difference in binding site on the low-molecular compound;
  - (4) fixing each of the separated complexes on a solid-phase support;
- (5) bringing the complexes fixed to the solid-phase support into contact with a solution containing the given compound which has a label; and
- (6) among the complexes fixed to the solid-phase support, selecting those complexes from which the label is not detected, to identify the binding site between the low-molecular compound and the photoreactive compound on the complexes.

9. (Currently Amended) The method of fixing a low-molecular compound on a solid-phase support according to any one of claims 1 to 4 Claim 1, wherein the solid-phase support is beads.

- 10. (Currently Amended) Beads having a low-molecular compound fixed thereon produced by a method as recited in any one of Claims-1 to 4 Claim 1.
- 11. (Original) A method of purifying a substance capable of interacting with a low-molecular compound, comprising the steps of:
- (a) bringing beads as recited in Claim 10 into contact with a solution containing a sample substance; and
  - (b) removing any substances which are unbound to the low-molecular compound.
- 12. (Original) A method of detecting a substance capable of interacting with a low-molecular compound, comprising the steps of:
- (a) bringing beads as recited in Claim 10 into contact with a solution containing a test substance to be detected which has a label;
  - (b) removing any substances which fails to bind to the low-molecular compound; and
  - (c) detecting the label of the test substance.

4